

MUSTAFAYEV, A.D.; ISMAYLOV, D.D.; MUSTAFAYEV, V.A.

Bearing covers in retucers of pumping units made of new caterials.

Izv.vyz.ucheb.zav.; nettil gaz 5 no.12;30-37 hd... (MIRA 17.4)

1. Azerbaydzhanskiy institut neftil khimit imen. Asistekova.

VINCERADOV, G.V. (Moskva); MUSTAFAYEV, V.A. (Moskva); PODGL'SKIY, Yu.Ya. (Moskva)

Wear and friction of steel in the presence of polymer powders.

Izv. AN SSSR. Mekh.i mashinostr. no.1:202-205 Ja-F '64.

(MIRA 17:4)

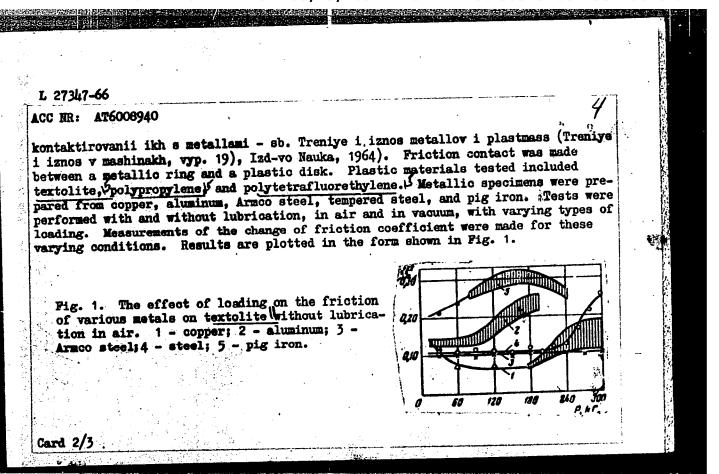
EWT(d)/EWT(m)/EPF(c)/EWP(w)/EWA(d)/EWP(v)/EWP(j)/T/EWP(t)/EWP(k)/ EWP(h)/EWP(z)/EWP(b)/EWP(I) Pc-4/Pf-4/Pr-4 MJW/JD/RM/019/0111/0126 50
ACCESSION NR: AT5010240 B+1 AUTHOR: Mustafayev, V. A.; Vinogradov, G. V.; Podol'skiy, Yu. Ya. Wear and friction of plastics in contact with metals SOURCE: AN SSSR. Institut mashinovedeniya. Treniye i iznos v mashinakh, no. 19, TITLE: 1964. Iznos i trenive metallov i plastmass (Wear and friction of metals and plass. TOPIC TAGS: plastic wear, plastic friction, plastic metal contact, friction tice), 111-126 couple, armco iron, steel, textolite, lubricant effectiveness, metal oxidation, ABSTRACT: The purpose of this work was to elucidate the part played by oxygen in the friction of metals against plastics. Ring specimens of armed iron (HRC = 10) x and hardened steel Shkhes (HRC = 60) were studied in contact with textolite # lowpressure polyethylene, polypropylene polymethylmethacrylate and polytetrafluoro-ethylene. A naphthene-paraffin fraction of oil MS-14 and glycerol were used as lubricants, and the tests were carried out on the MI-6 friction machine. It was found that a decrease in the rate of oxidation processes did not affect the friction of hardened steel and soft from against soft plastics. In the case of Card 1/2 1

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textolite coupled with armootransfer of iron onto the sudence of the friction proces. The effectiveness of the act the composition and properti	iron, the character of fricti rface of the plastic, and hence s on the oxidizing activity of ion of liquid lubricants is do as of the lubricant, but also herease or decrease with an in coefficient of friction of gl	by the nature of the crease in specific cycerol, observed in the	
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of glycerol when severe come of glycerol when	tact-friction conditions are e	employed. Urig. at.	

45227-65 EWT(m)/EWP(w)/EPF(c)/EW c-4/Pr-4/Ps-4 RPL JD/WW/EM ACCESSION NR; AT5010241	UR/2711/64/000/019/0127/0137 43
AUTHOR: Vinogradov, G. V.; Podol'skiy	Y. Yu. Ya.; Mustafayev, V. A. B+1
TITLS: Wear revistance of steel in the SOURCE: AN SSSR. Institut machinover 1964. Iznos i treniye metallov i plastice), 127-137	deniya. Treniye i iznos v mashinakh, no. 19, tmass (Wear and friction of metals and plass
ABSTRACT: The behavior of powders of tion tests on steel balls: polymethy (with various contents of CH3 groups) dehyde, polytetrafluorouthylene, polypolyvinyldimethylphenylsilane, polythylsilane. Under severa friction contents antifriction and antiwear proper	the following polymers was studied in fric- / methacrylate, polypropylene, polyethylene / polyvinyl butyral, polystyrene, polyformal- / winyl chloride, polyvinylidene chloride, inylmethylphenylsilane, and polyallyltrime- onditions (high loads and slip velocities), ties of the powdered polymers are determined properties of the polymers and their capacity Remarkable antiwear properties over the

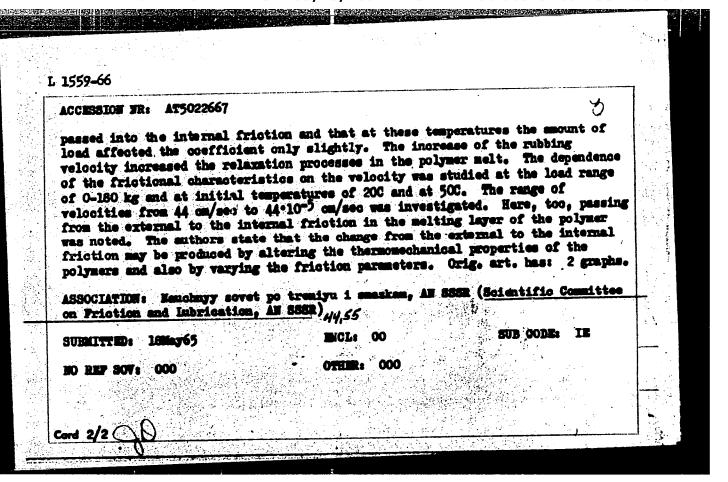
i 45227-65 Accession Nr: AT5010241		7 3
ethylene with a maximum degraphe optimum antiwear proper	ties are exhibited by polyme but are capable of performi that modify the metal surface	ing the functions of oxygen
ASSOCIATION: none		
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7347-66 EMT(m)/EMP(w)/T/EMP(1)/EMP(t) IJP(e) JD/DJ/GS/EMJJH R: AT6008940 (A) SOURCE CODE: UR/0000/65/000/000/0015/0025	1
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RS: Vinogradov, G. V.; Podol'skiy, Yu. Ya.; Kustafayev, V. A.	
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hetics and metals	
: New aspects in the problems of friction between plastics and metals	
E: Moscow. Institut mashinovedeniya. Plastmassy v podshipnikakh skol'zheniya;	
downing ont primmeniva (Plastics in Iriction bearings; research and Captain	
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or conner, steel,	
TAGS: friction gage, friction coefficient, plastic, aluminum, copper, steel,	
polymer, material testing/ Tr-6 friction gage >-7 7-7	
ACT: The effect of metallic oxide and salts on the friction behavior of	ķ
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of friction gage according to a method described earlier by V. A. Mustafayev, Vinogradov, and Yu. Ya. Podol'skiy (Iznos i treniye plastikov pri	2
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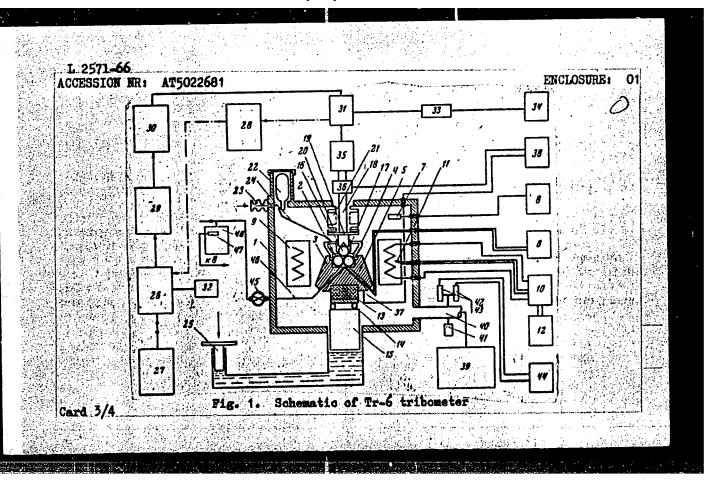
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It was determined that ton metals is the change	he most importan in effective con	t factor in hea tact area betwe	vy friction loads en the rubbing pai	of polymers rs. Orig.
art. has: 8 figures. SUB CODE: 11/ SUBM DAT	그는 회사 : 그런데 하다	•		
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ENT(d)/ENT(m)/ENP(w)/EPF(c)/EMP(v)/ENP(j)/T/EMP(t)/ENP(k)/ENP(h)/ENP(b)/ EMP(1) BWJD/DJ/GS/TM ACCESSION NR: AT5022667 VR/0000/65/000/000/0092/0094 metafayer, V. A.; Podol'skiy, Yu. Ya. TITIES A comparative investigation of friction of thermoplastics at broad changing basic parameters of friction SOURCE: AN SSSR. Nauchnyy sovet po treniyu i smaskem. Teoriya treniya i ismosa (Theory of friction and wear). Moscow, Isd-vo Nauka, 1965, 92-94 TOPIC TAGS: plastic, polymer, thermoplastic, friction, internal friction, external friction, metal to plastic friction/ TP 6 tribometer, TP 7 tribometer ABSTRACT: Experiments were performed to ascertain the influence of melting and flow of various thermoplastic polymers on the character of their external friction against steel. Friction of a hemisphere against a plane was studied in triboneter & TP-7, of a ring against a disk in triboneter TP-6, a graphic record of the changing coefficient of friction under a load of 10 g, at the velocity of 0.01 on/sec, and at temperatures changing from 40 to 1800 is presented. The coefficient was found to rise steeply at the melting temperatures for the crystalline polymers, less steeply for the amorphous and weakly orystallised polymers. It was noted that at the melting temperatures the external friction of the polymers Card 1/2

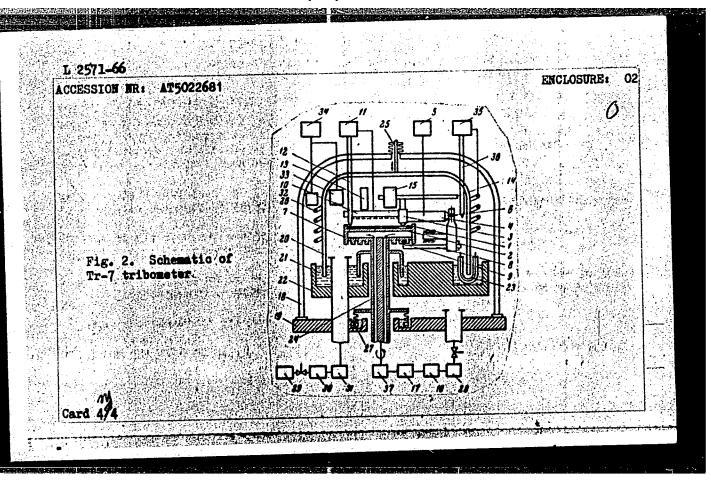


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L 2571-66 EWT(d)/EWT(m)/EWP(w)/EPF(c)/EWP(v EWP(b)/EWP(1) JD/DJ/GS/RM	•	
ACCESSION NR: AT5022681	67 UR/0000/65/000/000/0293/0297	
AUTHORS: Korepova, I. V.; Mustafayev, V. A.	5 5+1 15	
TITLE: Tribometers for investigating wear an a wide range of sliding velocities and temper	d friction of plastics and metals over atures in different gases and in vacuum	
SOURCE: AN SSSR. Nauchnyy sovet po treniyu i (Theory of friction and wear). Moscow, Izd-vo	Mauka, 1907, 277-271	
TOPIC TAGS: tribometer, <u>friction</u> measurement Tr 6 friction apparatus, Tr 7 friction appara	IVUS	
ABSTRACT: Tribometers Tr-6 and Tr-7 for frict polymer, metal-polymer, and metal-metal frict velocities, loads, and temperatures are described.	ibed. Tr-6 (see Fig. 1 on the	
Enclosure) provides contact loads of 1-800 kg	of $6.7 \times 10^3 - 62.1 \times 10^3$ and $1.1-880$	
kg/cm ² and speeds of 0.2 x 10 ⁻⁸ - 50 and 0.4	x 10 ⁻⁰ - 100 cm/sec respectively for (see Fig. 2 on the Enclosure) provides	
ranges of $10^{-2} - 1.0 \text{ kg}$, $20-2500$, $10^{-9} - 760$	mm Hg, 2 x 10 ⁻² - 2.0 kg/cm ² and	
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ACCESSION NR: AT5022681			1	3
0.5 x 10 ⁻⁴ - 1.7 cm/sec for se	emisphere-flat and cyli	nder-flat opera	tion. Tr-6	
consists of a 240-mm cubic vac	cuum chamber, the frict	ion test cluste	r with lubrice	t-
ing supplies, a hydraulic load				
seal), heaters, and auxiliary of a double vacuum chamber (44				
specimen table (specimen diame				
through a multi-speed geartra	in, cooling, heating, e	vacuating, and	measuring equi	p-
through a multi-speed geartra ment. Orig. art. has: 2 figur		vacuating, and	measuring equi	p-
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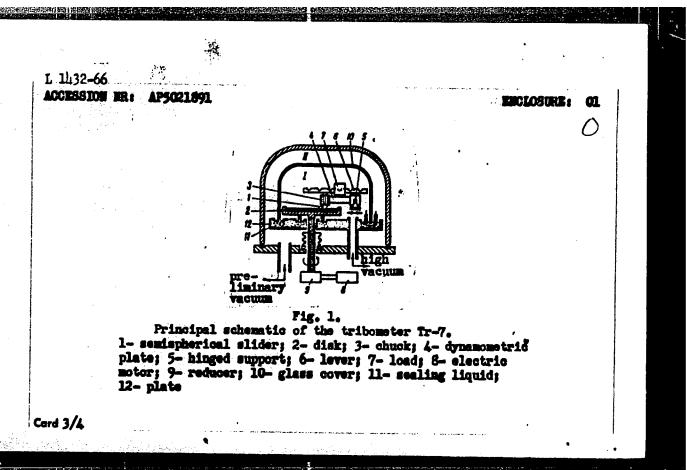


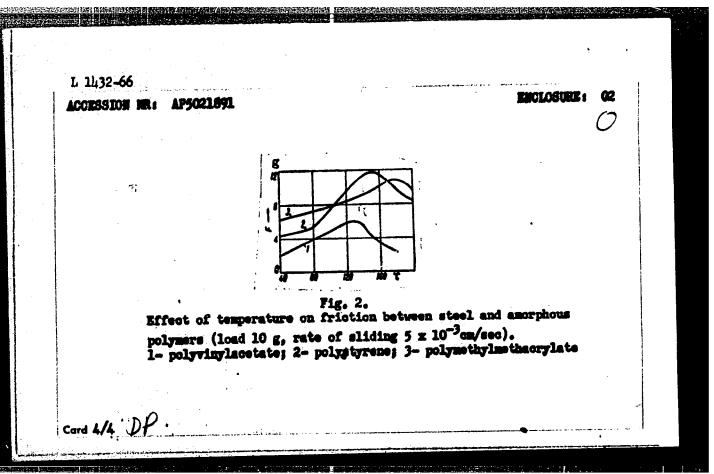
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L 1432-66 BWT(m)/EPF(c)/EWP(j)/T ACCESSION MR: AP5021891 AUTHORS: Nimogradov, G. V.; Mustafayev, Yu. M. W. TITLE: Transition of external friction to viscous flow during surface melting of polymers 7 HHH SOURCE: AN SSSR. Doklady, v. 163, no. 6, 1965, 1419-1422 TOPIC TAGS: polymer, friction, viscosity, viscous flow, polystyrene, polysthylene, resin ABSTRACT: A tribometer was designed by means of which the effect of temperature on the surface friction of polymers Ams studied. A schematic of the tribometer is shown in Fig. 1 on the Enclosure. Three different types of polymers involved in this study were: amorphous, crystalline, and radiationally cross-linked polyethylene. The experimental results are shown graphically; typical results for amorphous polymer are given in Fig. 2 on the Enclosure. The form of the experimental curves is explained in terms of a relaxation mechanism. Orig. art, has: ASSOCIATION: Institut meftekhimicheskogo sintesa, Akademii mauk SSSR (Institute Card 1/4

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ACC NR: AP6003945 SOURCE CODE: UR/0374/65/000/005/0095/0100

AUTHOR: Mustafavev. V. A. (Moskva); Podol'skiv. Yu. Ya. (Moskva); Vinogradov. G. V. (Moskva)

ORG: none

TITLE: Cold flowing and melting of plastics under heavy friction conditions

SOURCE: Mekhanika polimerov. no. 5. 1965. 95-100

300.001, Hemidized bottmeton, HO. 3, 1303, 33-100

TOPIC TAGS: plastic, crystalline polymer, polymide, polytetrafluoroethylene, friction coefficient, melting point

ABSTRACT: A study of friction between crystalline polymers under the load of tens and hundreds of kg/cm², carried out with considerable mutual coverage of the friction surfaces and at sliding speeds varied over a range of tens and thousands of times has revealed the effect on their behavior of cold flow and of surface melting. The friction toward the load dependence at low sliding speeds has a pronounced maximum. It is suggested that at constant sliding speed, the area of actual contact between the friction surfaces increases with the increase of loads. This is accompanied by the growth of the friction coefficient. At sufficiently high loads, when the ratio between the area of actual contact and the nominal contact area becomes high, cold flow sets in and is accompanied by an orientation effect. This lowers the friction coefficient. It has been shown by direct experiment that the friction coefficient may

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ACC NR: AP6003945

change from 2 to 3 fold depending on the direction of the friction with respect to the orientation of the single crystals in the surface layers of the polymer sample. At high sliding speeds, an increase in the load increases the heat generated during the friction, which in its turn, softens the surface layers of the polymer. The result is an increase in the area of actual contact and a rise in the friction coefficient. Under heavy friction conditions where surface melting occurs on the samples, the friction remains constant with growing loads. The fact that a surface layer of melt forms is evident from the ease with which the surface layer separates from the sample on rapid cooling. No anisotrop'c surface structures develop during melting. Therefore, training of crystalline polymers at high pressures and speeds has no substantial effect on their friction. Orig. art. has: 6 figures. [Based on author's abstract].

JUBM DATE: 25Mar65/ ORIG REF: 008/ OTH REF: 001/ SUB CODE: 11

SOV/24-58-11-22/42

Mirzadzhanzade, A. Kh. and Mustafayev, V. V (baku) AUTHORS:

On Driving Out the Gas with Water in a Porous Medium TITLE:

(O vytesnenii gaza vodoy v poristoy srede)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh

Nauk, 1958, Nr 11, pp 95-97 (USSR)

ABSTRACT: The problem of driving out gas with water from a poroug

medium was formulated by L. S. Leybenzon in 1947 (Ref 1) On the basis of the experimental data of Babalyan (Ref 2),

the authors assume that in the field occupied by the entering water the saturation will remain constant

The solution of the unidimensional problem of driving out

gas with water, published by Leybenzon (Ref 1), does not satisfy the initial condition. This is due to the fact that he assumed the filtration in the water bearing region.

to be a steady state one. He also assumed that the

pressure at the boundary gas-water was constant and did not vary with time. G. I. Barenblatt (Ref 5) published

a solution of the boundary problem for the case of filtration of gas with a mobile boundary; he assumed that

a surface exists which is impermeable for gas and that Cardl/3 this surface is displaced in space with a speed v(t)

On Driving Out the Gas with Water in a Porous Medium

In this paper accurate solutions are given for two particular problems which are of interest in themselves and can also be used as examples for verifying the correctness of various approximate methods, particularly the method of successive substitution of stationary states. In parall the authors consider driving the water into a gallery located in a semi-infinite gasbearing stratum; thereby, the gas filtration is assumed isothermal, the porosity independent of the pressure and the gas as being an ideal gas. It is concluded that in the calculations the pressure in the gas bearing region can be assumed constant with time equalling the initial pressure. In paral 2 the solution is given of the problem of driving water into a well which ends with a small radius and is located in an infinite gas-bearing stratum Acknowledgements are made to G. I. Barenblatt for his comments. There are 2 figures and 13 references all of which are Soviet.

Card2/3

On Driving Out the Gas with Water in a Porous Medium SUBMITTED: March 16, 1957

Card 3/3

MIRZADZHANZADZ, A.Kh.: MUSTAPAKHI, L.V.

Displacement of gas by water in a porous medium. Dokl. AN Azerb.

SSR 14 no.1:17-22 '58. (MIRA 11:2)

1. Neftyanaya ekspeditsiya AN Azerbaydzhanskoy SSR. Predstavlano akademikom AN Azerbaydzhanskoy SSR Z.I. Khalilovym.

(Petroleum engineering)

MUSTAFAYEV, V.V.

Gas drive in a porous oil formation. Dokl. AN Azerb. SSR 15 nc.9:
787-790 '59.

(Oil fields--Production methods)

(MIRA 13:2)

MUSTAFAEV, V. V., DADASHEVA, T. D. (Baku)

"Selfsimilar Solutions of Some Problems of Subterranean Hydrodynamics."

report presented at the First All-Union Congress on Theoretical and Applied Mechanics, Moscow, $27~\mathrm{Jan}$ - $3~\mathrm{Feb}$ 1960.

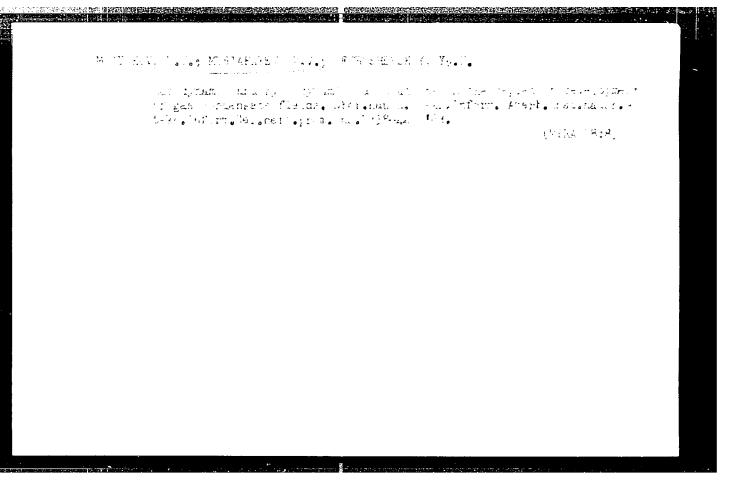
Solving a problem connected with a covelopment of gas concensate fields. bokl. in mark. 55: 16 no. 11:1059-1062 100.

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MAGERRAMOV, N.Kh. (Baku); MIRZADZHANZADE, A.Kh. (Baku); MOTYAKOV, V.I. (Baku); MUSTAFATEV, V.V. (Baku)

Stationary seepage of gas-condensate mixtures. PATF no.6:69-72 N-D '61. (MIRA 14:12)

(Soil percolation) (Condensate oil wells)



LYAPUSTIN, A.K.; BOZHKO, G.; KONDRAT'YEV, I.; GARBARCHUK, M.I.; MUSTAFAYEV,
Z.S.; IBRAGIMOV, R.; ZINOV'YEV, B.; ALEKSEYEV, A.A.; GÜÜRHÖVA, G.;
SAZONOV, Yu.; MEDVEDEV, I.D.

In the Soviet Union. Veterinariia 39 no.11:89-96 N '62.

(MIRA 16:10)

MUSTAFAYEVA, A.K.

Influence of hydrosulfide water from the spring at Shikhovo on cardiovascular function. Azerb.med.zhur. no.12:27-31 D *59.

(MIRA 13:4)

(KHANLAR--MINERAL WATERS, SULFUROUS) (CARDIOVASCULAR SYSTEM)

MUSTAFAYEVA, N.M

Mustafayeva, N. "Treating malaria in children with microtransfusions of blood," Truly Azerbaydzh, nauch, issled, in-ta okhrany materinstva i mladenchestva i pediatr, kafedr Azerbaydzh, med, in-ta, Baku, 1949, p. 102-08, (Resume in Azerbaijani).

SO: U-3736, 21 May :3, (Letopis 'Zhurnal 'nykh Statey, %c. 17, 1949).

MUSTIFMYDM, E. Y.

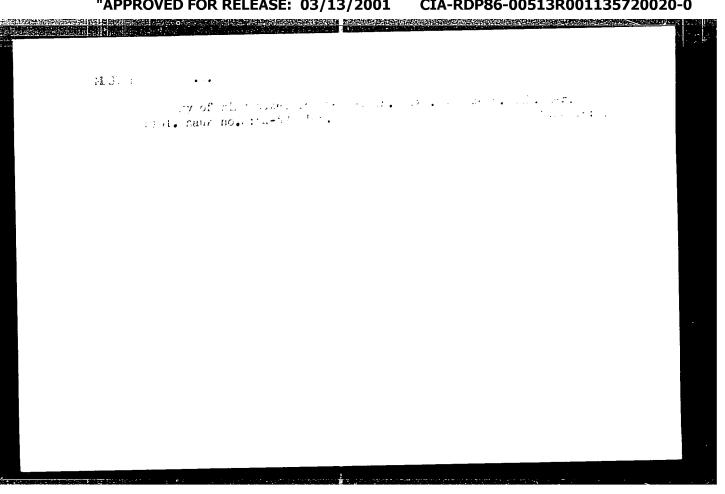
Mustafayeva, N. M. "The intraconsular method of treating pneumonia in children, with sulf did," Index increase the nauch. His shed in the obbrany part firstwal allegements in product the product kefer Azer apidan med. In the, pake, 1956, j.
212-b5, (In hussian and Azer adjan).

50: U-373/, 21 (ay 03, (Letoria (Courna) hydd. Utatey, No. 1, 1956.)

ASKEROV, A.K.; SADYKH-ZADE, S.I.; MUSTAFAYEVA, P.R.

Production of vinyl- and —methylvinyltcluenes by the catalytic dehydrogenation of ethyl- and isopropyltcluenes. Azeri.khim.zhur. nc.6:51-59 '61. (MIRA 15:5)

(Styrene) (Toluene) (Dehydrogenation)



MUSTAFAYEVA, R.C.

Ecology of the blackbird (Turdus merula L.) in Azerbaijan.

Izv.AN Azerb.SSR.Ser biol. nauk no.5:47-51 '64. (MIRA 18:4)

MUSTAFAYEVA, R.I.

Some characteristics of the distribution of static levels in wells of the Sabunchi series of the Surakhany petroleum deposit. Dokl. AN Azerb. SSR 18 no.5:29-32 '62. (MIRA 15:7)

1. Neftepromyslovoye upravleniye "Ordzhonilidzeneft". Predstavleno akademikom AN AzSSR M.V. Abramovichem. (Surakhany--Oil field brines)

DZHAMALOV, I.M.: MEKHTIYEV, D.M.: MUSTAFAYEVA, S., red.

[Development of equipment and technology in oil and gas production in Azerbaijan] Razvitie tekhniki i tekhnologii dobychi nefti i gaza v Azerbaidzhane. Baku, Azerneshr, 1961. 45 p. (MIRA 18:5)

Studying the substantial composition and physical propertie of the clay rocks of the Apsheronian stage of western Azerbaijar (Ontagash fold). Dokl. AN Azerb. SSR 20 no.5:27-32 '64. (MIRA 17:2)

ALIYEV, F.S.; MUSTAFAYEVA, S.A.

Characteristics from the viewpoint of engineering geology of the clay rocks of the #1906# bank in connection with their lithification. Trudy Inst. geol. AN Azerb. SSR 23:5-13 *64. (MIRA 18:7)

MUSTAFAYEVA, S.I.

Effect of sowing rate on the growth and development of the Bol-Bugda variety of wheat in unirrigated soils of the lower Karabakh. Dokl. AN Azerb. SSR 19 no.12:53-57 '63. (MIRA 17:4)

1. Azerbaydzhanskiy seliskokhozyaystvennyy institut. Predstavleno akademikom AN AzSSR D.M.Guseynovym.

MUSTAFAYEVA, S.I.

Study of the effect of sowing time on the growth, development and yield of the Bol-Bugda wheat under dry farming conditions. Dokl. AN Azerb. SSR 19 no.6:63-67 *63 (MTRA 17:7)

1. Institut genetiki i selektsii AN Arose. .redstavleno aksdemikom AN ArerbSJR D.M.Ouseynovym.

MUSTAFAYEVA, S.I.

Study of the effect of sowing time on the growth, development and yeild of the Bol-bugda wheat raised in watered soils of the lower Karabakh Steppe. Dokl. AN Azerb. SSR 19 no.8:63-69 '63.

1. Azerbaydzhanskiy sel'skokhozyaystvennyy institut. (MIRA 17:11) akademikom AN AzSSR D.M. Guseynovym.

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Sultanov, S. A., Maroditakaya, L. G., Mardanov, M. A.,

Ozerova, Tu. F., Mustafayeva, Z. B.

TITLE:

Destructive hydrocenation of the gas oil fraction of

retroleuas

PERIODICAL: Referatively zhurnal. Khimiya, no. 10, 1962, 44), abstract

18H132 (Azerb. neft. kh-vo, no. 1, 1962, 39-40)

TEXT: The jas oil fraction of Balakhano heavy oil containing 45.2, Aromatics, was used in a study of the destructive hydrogenation of goo oil fractions which contain large quantities of aromatic hydrocarbons and do not have satisfactory qualities as fuels. The hydrogenation was carried

out at 350-400°C, a pressure of 200 atm., and a volumetric crude oil feed rate of 0.5-1.5, in the presence of the industrial catalyst WS. The

· kerosene-gas oil fraction of petroleum from the Neftyanyye Kamni field underwent destructive hydrogenation under the same conditions. It was found that the fuel qualities of the crude can be improved under these

. Card 1/2

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estructive hydrosenetion of the gas .	S/081/62/000/018/033/059 B156/B160
ptimum conditions. The paraffinic hy ydrogenisate rises noticeably, and, a ings are opened up as a result of the Abstracter's note: Complete translati	moreover, 20-26% of the naphther
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	\$ · · · · · · · · · · · · · · · · · · ·
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ard 2/2	

USSR/Farm Animals - Silkworm.

0-6

Abs Jour

: Ref Zhur - Biol., No 7, 1958, 31046

Author

: Mustafazade A.

Inst Title : The Influence of Late Feedings on the Cocoon Crop of Highly Productive Breeds and Hybrids of the Mulberry-

Feeding Silkworm.

(Vliyaniye pozdnikh vykormok na urozhaynost' vysokoprodu-

ktivnykh porod i gibridov tutovogo shelkopryada).

Orig Pub

: Sots. s. kh. Azerbaydzhana, 1957, No 2, 41-45

Abstract

: The new highly productive breeds of the mulberry-feeding silkworm are characterized by an early maturity and complete their caterpillar period 4-5 days earlier than old breeds. In a number of districts of Azerbaijan, especially in the years with a large amount of precipitation, while the hatching of "silk-seed" is as usual and coincides with the development of 4-5 leaves of the mulberry,

Card 1/2

MUSTAFA-ZADE, A. agronom.

Effect of different silkworm feeding times on the silk production of cocoons. Mauka i pered, op. v sel'khoz. 8 no. 7:29-30 J1 '58.

(MIRA 11:8)

1. Upravleniye shelkovodstva Ministerstva sel'skogo khozyaystva Azerbaydzhanskoy SSR.

(Silkworms--Feeding and feeding stuffs)

MUSTAFAZADE, M. Periodic solutions to a certain class of nonlinear equations in partial derivatives. Trudy Inst. mat. i mekh. AN Azerb.SSR 1:112-136 '61. (MIRA 1/4:11) (Differential equations, Partial)

MUSTAFAZADE, M.A.; GASANOV, F.G.; OSMANOV, Yu.K.

Using mathematical programming to determine the maximum possible withdrawal of oil. Dokl. AN Azerb. SSR 19 no.6: 25-29 '63. (MIRA 17:7)

1. Vychislitel'nyy tsentr AN AzSSR. Predstavleno akademikom AN AzSSR S.M. Kuliyevym.

Case of multiparity. Veterinariia 33 no.12:52 D '56	6. (MLRA 9:12)
(Cows) (Birth, Multiple)	

MUSTAFIN, A.F.

Changes in the conductive vessels of a cucumber grafted on the gourd. Bot. zhur. 47 no.5:685-690 My '62. (MIRA 16:5)

1. Plodovoshchnoy institut imeni I.V.Michurina, Michurinsk. (Grafting) (Cucumbers) (Gourds)

MUSTAFIN, A.M.

Hermaphrodite forms of cucumber. Priroda 50 no. 3:113-114 Mr '61. (MIRA 14:2)

1. Plodoovoshchnoy institut im. I.V. Michurina, Michurinsk. (Cucumber)

RUBTSOV, M.I., dots.; YERMILOVA, A.A., dots.; CHEREPOVA, O.M., kand. sel'khoz.nauk; SKRIPNIKOV, Yu.G., dots.; DOROKHOV, A.A., kand. sel'khoz.nauk; LITVINOVA, M.K., assistent; MUSTAFIN, A.M., prepodavatel'; PESHKOV, V.P., red.; POPOV, V.N., tekhn. red.

[Growing vegetables in the Central Chernozem Region of the U.S.S.R.] Vyrashchivanie ovoshchei v TSentral'noi chernozemnoi zone SSSR. Tambov, Tambovskoe knizhnoe izd-vo, 1962. 110 p.

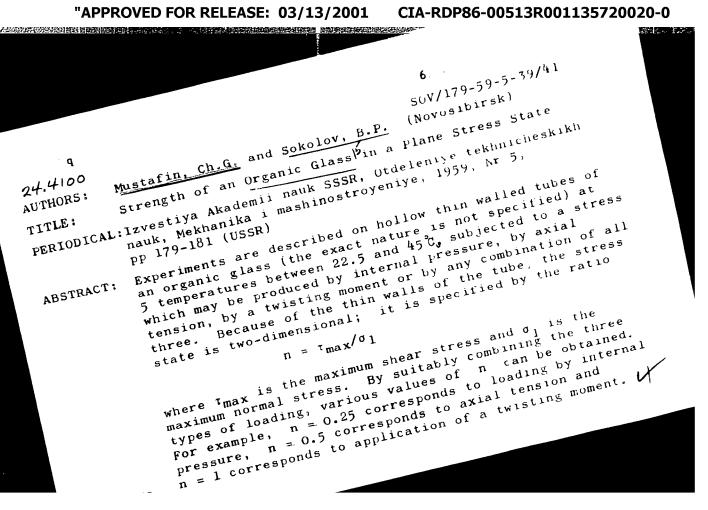
(MTRA 16:2)
1. Sotrudniki kafedry ovoshchevodstva Michurinskogo plodoovoshchnogo instituta im.I.V.Michurina (for all except Peshkov, Popov).
(Central Chernozem Region—Vegetable gardening)

MUSTAFINA, A.M.; SOMKIN, M.I.

Determining the manshift output of an excavator. Trudy
Inst. gor. dela AN Kazakh. SSR 18:21-24 '65.

(MIRA 18:12)

"APPROVED FOR RELEASE: 03/13/2001



67.

SOV/179-59-5-39/41

Strength of an Organic Glass in a Plane Stress State

The principal stresses in the glass are plotted as a function of a for different temperatures and show maxima at values of a which depend on temperature. In general, the failure is of a brittle nature to the left of the maximum and of a plastic nature to the right. At the maximum, the condition

$$\frac{R_{\tau}}{R_{\sigma}} = \frac{\tau_{\text{max}}}{\sigma_{1}}$$

holds, where R_{t} is the strength in shear and R_{0} is the breaking strength. This condition indicates the most favourable loading; values of n corresponding to the optimum loading at the 5 test temperatures are tabulated. Analysis of data for steel EI694 at 700°C enables a curve of principal stress to be plotted against n for this material; the curve shows a maximum at n = 0.5. There are 5 figures, 1 table and 2 Soviet references.

SUBMITTED: March 30, 1959

Card 2/2

MUSTAFIN, Ch.G., SCKOLOV, B.P. [deceased]

Selecting a tolerance zone for blade pitches and determining effective clearance between the bearing surfaces of teeth of multipearing base joints of turbine blades. Izv.Sib.otd.AN SSSR no.1:41-55 (MIRA 13:7)

1. Institut radiofiziki i elektroniki Sibirskogo otdeleniya AN SSSR. (Turbines)

8-812

5/114/60/000/004/004/009 E194/E355

26.2122

Sokolov B.P., Candidate of Technical Sciences AUTHORS:

(Deceased) and Mustafin Ch.G. Engineer

Design of Multitooth Blade-root Joints Operating TITLE:

at High Temperatures

Energomashinostroyeniye 1960 No. 4 PERIODICAL:

pp. 18 - 20

The stresses in a fir-tree blade root are usually resolved into two components. One is the local variation of stress characterised by stress concentrations at minimum sections. The other is a general irregularity of stress depending on the angle of the root and on the distribution between joint teeth, of stresses due to tentrifugal force It is generally recognised that the normal stresses are those. that lead to failure of parts operating for a long time under creep conditions. Tests carried out at the TsKTI (Central Boiler Turbine Institute) have also shown that treep reduces Card 1/6

ر مواجع

S/114/60/000/004/004/009 E194/E355

Design of Multitooth Blade root Joints Operating at High Temperatures

local stress irregularities. A root design will be most rational if the minimum possible initial stress variation is maintained throughout the life of the joint or if the irregularity is reduced with time, reaching a minimum value near the end of life. The overall irregularity of the stress is greatly influenced by the temperature distri bution in the joint and the properties of the materials used The present article considers the influence of the properties of the conjugate materials and of the temperature difference between the blade root and the projection between dist slots on the overall irregularity of stress The artille does not consider the influence of temperature gradient over the height of the joint which has been discussed in the work of A.N. Grubin. A simplified root is then onsidered blade is assumed to be attached to the rotor body continuously throughout the height of a smooth conical joint that is Card 2/6

43873

S/114/60/000/004/004/009 E194/E355

Design of Multitooth Blade-root Joints Operating at High Temperatures

an infinite number of root teeth are assumed. then derived for stress distribution over the height of the joint but as for practical purposes it is only necessary to know the coefficients of irregularity of loading between the first and last pairs of teeth of the joint. Expressions for these are obtained in simplified form in expressions (1). These expressions show that irregularity of stress distri bution over the joint depends on the number of pairs of teeth, the ratio between the dimensions of the blade roots and the projections between rotor slots and also on the ratio of the moduli of the materials of blade and disc, In deriving Eqs. (1) it is assumed that the blade is fixed to the disc continuously over the whole height of the joint and no allowance is made for strain of the teeth. factors may be allowed for by introducing coefficients methods of determining the values of these coefficients are Card 3/6

87864

S/114/60/000/004/004/009 E194/E355

Design of Multitooth Blade-root Joints Operating at High Temperatures

In particular, the ratio between the moduli of explained. the two materials, of the blade and of the disc characterises the combined operation of the two materials. Accordingly, this ratio is termed the "combined operation coefficient" of the joint parts. The modified formulae may be used in designing high-temperature joints when the materials operate in the creep region. In this case, the combined operation coefficient may be considered as the ratio of the linear approximated creep moduli. Methods of determining the combined operation coefficient in this case are then given. It is claimed that the values of stress irregularities coefficient obtained by the methods used in this article give an error of not more than 20%, as compared with the more accurate methods given by Sokolov. It is concluded that the load distribution between teeth of the joint may alter considerably as the material creeps. Thus, for a six-tooth root joint when the ombined operation coefficient is changed from 0.5 to 3 the coefficient Card 4/6

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S/114/60/000/004/004/009 E194/E355

Design of Multitooth Blade-root Joints Operating at High Temperatures

of stress irregularity of the first and last teeth are respectively decreased and increased by a factor of 2 - 3. The high-temperature root joint of a stationary turbine fails because of the maximum normal stresses, which should accordingly be reduced as much as possible. This is particularly important if the materials are likely to become brittle after operation at high temperature. this standpoint it is best to select materials, for the joint parts, whose combined operation coefficient remains constant with time. If for any reason this is not possible and the choice of materials is such that the combined operation coefficient can alter appreciably with time influence of this factor must be allowed for. The joint should be redesigned by altering the shape and size in such a way that the irregularity of stress in the joint decreases in the course of time. Methods of doing this are briefly Card 5/6

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S/114/60/000/004/004/009 E194/E355

Design of Multitooth Blade-root Joints Operating at High Temperatures

described. The influence of the number of pairs of teeth on the overall irregularity of stressing increases as the combined operation coefficient increases. There are advantages in using a small number of teeth, not more than four. It may sometimes occur that materials of blade and disc operate at low temperatures outside the creep region but have different elastic moduli, for example combinations of dural and steel, and titanium alloys and steel. Design procedures similar to those described in this article may also be necessary in such cases. There are 5 figures and 3 Soviet references.

Card 6/6

MUSTAFIN, Ch.G., inzh.

Stress concentration in T-shaped feet joints of working torbine blades. Energomashinostroente 7 no.12:46 D *61. (MIRA 1-.12)

(Turbines--Hlades)

39299 \$/122/62/000/007/001/006 D262/D308

26.YIVV AUTHOR:

Mustafin, Ch. G., Engineer

TITLE:

Calculations of fir-tree joints for turbine working

blades

PERIODICAL:

Vestnik mashinostroyeniya, no. 7, 1962, 13 - 17

TEXT: The paper deals with the problem of calculating clearances between the teeth of fir-tree joints in order to obtain a uniform load distribution on all teeth. Two stages: a) when the joint is subjected to temperature deformation only, and b) when the joint is under full working load, are considered and the equations for calculating the clearances between the teeth are deduced. A typical example taking into account elastic conditions of deformation and also deformation due to material creep is worked out. It is stated that for low temperatures the clearances can be dispensed with and the joints can be fully filled in. There are 3 tables and 5 figures.

Card 1/1

S/096/63/000/004/004/010 E194/E455

AUTHOR:

Mustafin, Ch.G. Engineer

TITLE:

Factors of safety for high-temperature components of

turbines

PERIODICAL: Teploenergetika, no.4, 1963, 28-30

TEXT: A theoretical basis is offered for selection of safety factors in turbine designing, with particular reference to gasturbine blade roots. The overall factor of safety no, may be considered as the product of the general factor of safety no (which applies to any component) and a particular factor of safety no (which applies to those parts whose conditions of manufacture or of operation call for something special). The general safety factor no is represented as the product of five coefficients

 $n_1 = S_1 S_2 K_1 K_2 M_2 \tag{2}$

where S_1 and S_2 depend on the nature of the metal and on the importance of the part; K_1 and K_2 allow for error in determination of the forces applied to the part and internal stress; Card 1/3

Factors of safety ...

S/096/63/000/004/004/010 E194/E455

 M_2 allows for variations in the strength characteristics of the metal from one part to another. Turbine blades are required to have very long life, so there will be some error in extrapolation from laboratory creep tests. As there is a great scatter in test results on samples from different melts of the same steel, results must be available from a considerable number of melts. In selecting the safety factor, allowance must be made for scatter of creep-test results by the factor K_g which can replace the product S_1M_2 . The long-term strength of parts in which there are stress concentrations differs from that of smooth cylindrical specimens. Therefore, the concept of effective stress concentration K_G is introduced, which can replace the coefficients K_1 and K_2 so that finally the general factor of safety can be written as

 $\mathbf{n_1} = \mathbf{SK}_{\mathbf{a}} \mathbf{K}_{\mathbf{a}} \tag{5}$

This equation shows how the factor of safety depends on having parts of favorable shape without stress concentration and also on the availability of test results on many different batches of metal. The value of the factor S depends on the importance of Card 2/3

S/096/63/000/004/004/010 E194/E455

Factors of safety ...

the part; for example S=1.00 for cases where fracture of the part simply stops the machine without causing much damage whereas S=1.30 when fracture causes an accident with danger to human life; turbine blades fall in this latter category. The following formula is recommended for $K_{\rm S}$

 $K_a = 1.40 + 2\Delta$ (8)

 \triangle is obtained from a curve which rises from zero at 1000 hours to 0.20 at 100000 hours extrapolation. The formulas given are used to work out a numerical example for a turbine blade root operating to work out a numerical example for a turbine blade root operating at a temperature of 600°C. It is shown that for the most favorable case (the melt considered being of the worst properties) $n_1=1.8$ case (the melt considered being of the worst properties) $n_1=1.8$ and for the least favorable case $n_1=2.6$. Current works' practice and for the least favorable case $n_1=2.6$. Current works' practice is to take an arbitrary value of $n_0=1.5$ which appears to be too low and n_1 should be at least 2, particularly for new types of construction in which $K_{\mathcal{G}}$ is not known. There are 4 figures.

ASSOCIATION: Teentral nyy kotloturbinnyy institut
(Central Boiler and Turbine Institute)

Card 3/3

MUSTAFIN, Ch.G., inzh.

Choice of the type of terminal fixings for the working blades of turbines designed to operate at high temperatures.

Energomashinostroenie 9 no.2:43-46 F '63. (MIRA 16:3) (Turbines)

EWT(d)/ERT(m)/ERP(w)/TRP(v)/T/ERP(t)/ETI/ERP(k)IJP(c) ACC NR. AP6019188 (N) SOURCE CODE: UR/0122/66/000/002/0016/0020 Mustafin, Ch, G. (Candidate of technical sciences) AUTHOR: ORG: None 13 TITLE: Compliance of teeth and selection of clearances between them in tapered stem connectors for turbine blades SOURCE: Vestnik mashinostroyeniya, no. 2, 1966, 16-20 TOPIC TAGS: steam turbine, turbine blade, bending stress, elastic modulus ABSTRACT: Experimental data are given for bending deflection of the teeth on various shapes of tapered stem connectors for turbine blades and these results are compared with theoretical calculations. Deflection was determined experimentally at 25°C on models of blade stems made from sheet celluloid 2.69-3.05 mm thick (figures 1 and 2) and transparent plastic (figure 3). The prototypes of these models were blade stems used in turbine plants. The results show that there is no definite relationship between deflection of a tooth in a given pair and the width of the blade stem between the teeth in this pair, which may be due to variations in the mechanical properties of the material as well as to deviations in the dimensions Card 1/2 UDC: 62-226.2.001.21

L 40842-66

ACC NR: AP6019188

of the teeth. A formula is given for the bending deflection of the tooth due to tangential stresses (85-95% of the total deflection) where the tooth is assumed to be a cantilever forced into the body of the blade stem and loaded by a concentrated force at the center of the line of contact between teeth. The experimentally determined deflection was considerably greater than the results of theoretical calculations in all cases. The various types of loads on blade stems in practical turbine wheels are considered. It is shown that the tensile load on the teeth is nonuniformly distributed under conditions of elastic deformation due to the differences in dimensions in the cold state and differences in temperature expansion during operation. If the modulus of elasticity for the blade material is close to that of the disc, an ideally accurate connector will give uniform load distribution if temperature deformations are eliminated. Recommendations are made for clearances in these cases. When the blades in the last stages of condensation steam turbines are made from titanium alloy, the leading teeth on the blade stems will be overloaded if they have an ideally accurate shape. Orig. art. has: 6 figures, 3 tables, 7 formulas.

SUB CODE: 13,20/SUBM DATE: none/ ORIG REF: 007

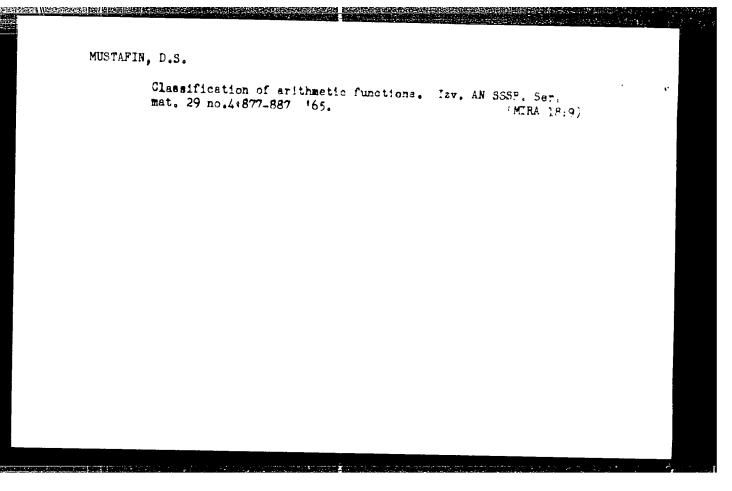
Card 2/2 MLP

MUSTAFIN, D.S.

One generalization of the Mobius function. Uch. zap. Osh. gos. ped. inst. no.5:25-28 '63.

Some transformations of a series for ex. Ibid.:35-40

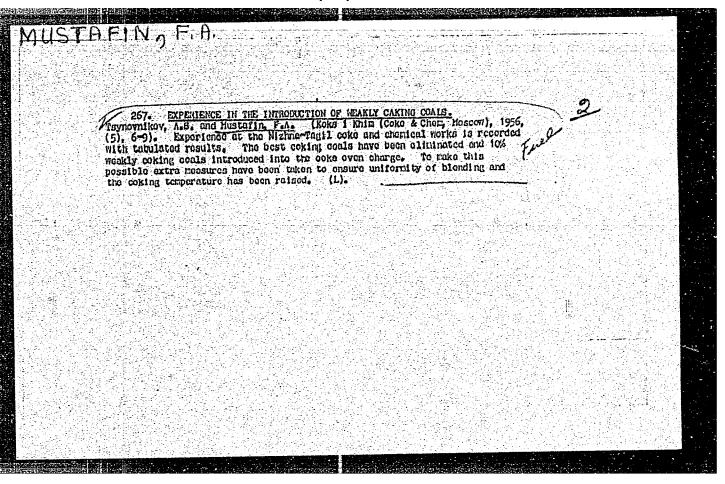
The symbolic power and some of its applications. Ibid.:41-85 (MIRA 18:2)



VARSHAVSKIY, T.P.; AGAPOV, B.G.; MUSTAFIN, F.A.; PERMTAKOV, V.A.

Reducing the escape of gas during the charging of ceke ovens.
Keks i khim.no.2:26-30 '56. (MLRA 9:7)

1.Vostechnyy uglekhimicheskiy institut (for Agapov).2.N.-Tagil'skiy keksekhimicheskiy zaved.
(Coke ovens)



EYDEL SHTEYN, Ya.M.; KULESHOV, P.Ya.; SHVARTS, G.A.; MUSTAFIN, F.A.

Comments on R.Z.Lerner's article "Changing the layout of a coking

section for considerable increase in the number of evens per battery. Keks 1 khim.no.6:32-36 '56. (MIRA 9:10)

1.Keksekhimmentazh (fer Eydel'shteyn).2.Zaperezhskiy keksekhimicheskiy zaved (fer Kuleshev and Shvarts).3.N.-Tagil'skiy keksekhimicheskiy zaved (fer Hustafin).

(Coke ovens)

TSYNOVNIKOV, A.S.; MUSTAFIN, F.A.; GUSEV, A.P.

Preparation of coals and blended coal charges for coking. Koks i khim. no8:10-12 '56. (MIRA 10:1)

1. Vostochnyy uglekhimicheskiy institut (for TSynovnikov).2.Nizhne-Tagil'skiy koksokhimicheskiy zavod. (Coal preparation)

68-58-7-7/27 Ukhov, L. P. and Mustafin, F. A. AUTHORS:

Determination of the Coefficient of Excess Airfrom the TITLE:

Carbon Dioxide Content in the Combustion Products (Opredeleniye koeffitsiyenta izbytka vozdukha po

soderzhaniyu v produktakh goreniya CO2)

PERIODICAL: Koks i Khimiya, 1958, Nr 7, pp 22-26 (USSR)

ABSTRACT: The coefficient of excess air is usually determined from the content of CO₂ and O₂ in the combustion gases using Yushin's formula (1). The authors consider that while the determination of CO₂ in waste gas is usually accurate the determination of O₂ is not and, therefore, propose a formula (4) for the determination of the coefficient of excess air on the basis of the ${\rm CO}_2$ content only. For this purpose it is necessary to know the percent content of CO2 in dry combustion products at a theoretical consumption of air and the amount of dry combustion products obtained on combustion of lm2 of gas at a

theoretical consumption of air. The use of the formula

Card 1/2

Determination of the Coefficient of Excess Air from the Carbon Dioxide Content in the Combustion Products

is illustrated with examples. There are 2 tables.

ASSOCIATIONS: Ural'skiy politekhnicheskiy institut
(Ural Polytechnical Institute) and
N.-Tagil'skiy metallurgicheskiv kombinat
(Nishniy'Tagil Metallurgical Combine)

1. Air--Determination 2. Waste gases--Analysis 3. Fuels --combustion 4. Combustion--Analysis

Card 2/2

TSYNOVNIKOV, A.S.; SHEMERYANKIN, B.V.; LIKHOGUB, Ye.P.; MUSTAFIN, F.A.; BERKUTOVA, G.I.

Increasing the charges of coke ovens during leveling. Koks i khim. no.2:19-22 '60. (MIRA 13:5)

1. Vostochnyy uglekhimicheskiy institut (for TSynovnikov, Shemeryankin). 2. Teplotekhstantsiya (for Likhogub). 3. Nishne-Tagil'skiy metallurgicheskiy kombinat (for Mustafin, Berkutova).

(Nishniy Tagil--Coal--Carbonization)

MUSTAFIN, F.A.; SLAVGORODSKIY, M.V.; BURSHTEYN, M.D.

Automation of the feeding of air into the heating system of coke batteries. Koks i khim. no.1:28-33 '61. (MIRA 14:1)

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat (for Mustafin and Slavgorodskiy). 2. TSentral'naya laboratoriya avtomatiki (for Burshteyn). (Coke ovens)

OSTROUKHOV, M.Ya.; PANCHENKO, S.I.; Prinimali uchastive: FRISHBERG, V.D.; PETROV, V.K.; RESHETKO, A.; VYATKIN, G.P.; BRATCHENKO, V.P.; POPAHOV, A.A.; MILYAYEV, M.N.; PRIVALOV, V.Ye.; MUSTAFIN, F.A.; PUSHKASH, I.I.; LAZAREV, B.L.

Experimental blast furnace smelting using coke from wet preparation coals. [Shor. trud.] Nauch.-issl.inst.met. no.4:63-70 '61. (MIRA 15:11)

l. Vostochnyy uglekhimicheskiy institut (for Ostroukhov, Panchenko, Frishberg, Petrov, Reshetko). 2. Hauchno-issledovatel'skiy institut metallurgii (for Vyatkin, Bratchenko). 3. Hishne-Tagil'skiy metallurgicheskiy kombinat (for Privalov, Mustafin, Pushkash, Lasarev).

(Blast furnaces—Testing)
(Coke—Testing)

GORELOV, P.N.; GORNYKH, T.I.; MUSTAFIN, F.A.

Removal of oils and tarry residues from waste waters in a flotation machine. Koks i khim. no.8:50-51 '61. (MIRA 15:1)

- 1. Vostochnyy uglekhimicheskiy institut (for Gorelov, Gornykh).
- 2. Nizhne-Tagil'skiy metallurgicheskiy komlinat (for Mustafin).
 (Water--Purification) (Flotation)

MAKAROV, G.N.; KAZINIK, Ye.M.; POPCHENKO, R.A.; SEMENOV, A.S.; YERKIN, L.I.; RYVKIN, I.Yu.; PRIVALOV, V.Ye.; MUSTAFIN, F.A.; KUZNETSOV, P.V.; ZOROKHOVICH, G.Ya.

Coking of the coal charge in an oven with a rotating ring floor. Koks 1 khim. no.11:34-41 '62. (MIRA 15:12)

1. Moskovskiy khimiko-tekhnologicheskiy institut im. D.I.
Mendeleyeva (for Makarov, Kazinik, Popchenko, Semenov).
2. Vostochnyy uglekhimicheskiy institut (for Yerkin, Ryvkin, Privalov).
3. Nizhne-Tagil'skiy metallurgicheskiy kombinat (Mustafin, Kuznetsov, Zorokhovich).
(Coke)

MUSTAFIN, F.A.; CHERKASOV, N.Kh.; BERKUTOVA, Ye.I.

Box coking test of coal charges with the addition of blast furnace flue dust. Koks.i khim. no.12:28-29 '62. (MIRA 16:1)

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat. (Coke-Testing)

KOGAN, L.A.; BOGGYAVLENSKIY, V.V.; MAKAROV, G.N.; SEMENOV, A.S.; KUZNETSOV, P.V.; MUSTAFIN, F.A.

Obtaining pitch coal coke for electrode manufacture. Koks i khim. no.3: 22-25 163. (MIRA 16:3)

Vostochnyy uglekhimicheskiy institut (for Kogan, Bogoyavlenskiy),
 Moskovskiy Ordena Lenina khimiko-tekhnologicheskiy institut im.
 D.I.Mendeleyeva (for Makarov, Semenov).
 Nizhne-Tagil'skiy metallurgicheskiy kombinat (for Kuznetsov, Mustafin).
 (Coke)

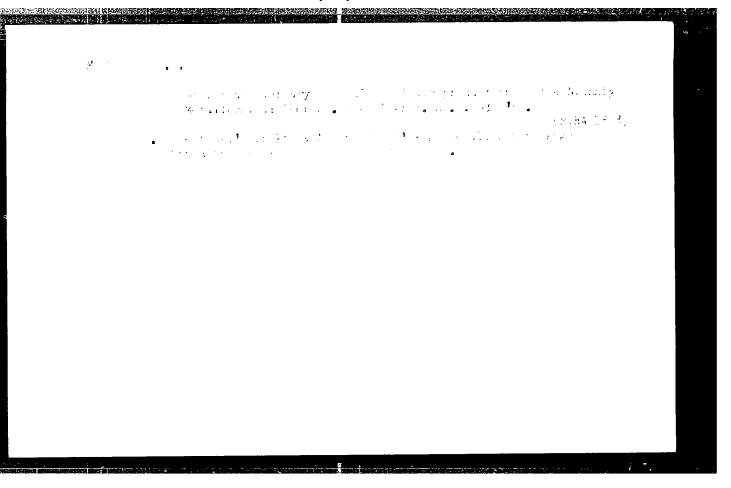
KUPERMAN, P.I.; GRYAZNOV, N.S.; MOCHALOV, V.V.; FROLOV, V.V.; MUSTAFIN, F.A.; PUSHKASH, I.I.; SLAVGORODSKIY, M.V.; LAZAREV, B.L.; BORISOV, V.I.; Prinimali uchastiye: CHERKASOV, N.Kh.; ZABRODSKIY, M.P.; RYTCHZHKO, A.I.; RUTKOVSKAYA, Ye.N.; SAITBURGANOVA, N.I.; SHTAGER, A.A.; SHISHLOVA, T.I.; BUDOL', Z.P.; MEN'SHIKOVA, R.I.; GORELOV, L.A.; AGARKOVA, M.M.; KOUROV, V.Ya.; KOGAN, L.A.; BEZDVERNYY, G.N.; POKROVSKIY, B.I.

Effect of the lengthening of the coking time on the coke quality and testing of coke in the blast furnace process. Koks i khim. no.9: 23-28 '63. (MIRA 16:9)

1. Vostochnyy uglekhimicheskiy institut (for Kuperman, Gryaznov, Mochalov, Kogan, Bezdvernyy, Pokrovskiy). 2. Ural'skiy institut chernykh metallov (for Frolov). 3. Nizhne-Tagil'skiy metallurgicheskiy kombinat (for Mustafin, Pushkash, Slavgorodskiy, Lazarev, Cherkasov, Zabrodskiy, Lytchenko, Rutkovskaya, Saitburganova, Shtager, Shishlova, Budol', Men'shikova).

4. Koksokhimstantsiya (for Borisov, Gorelov, Agarkova, Kourov).

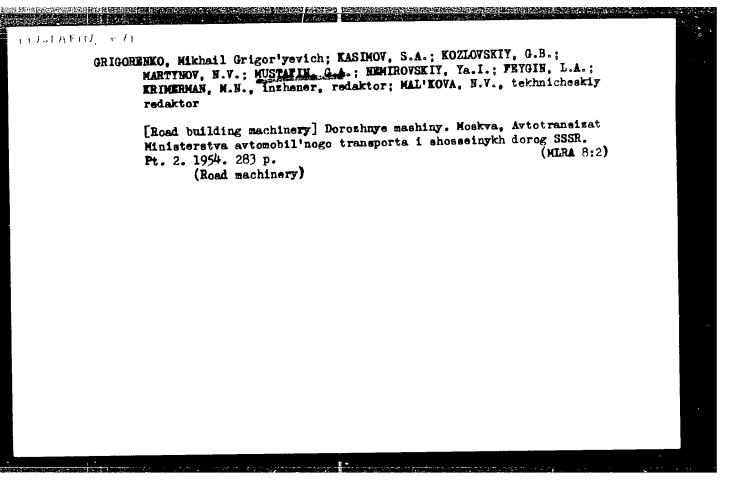
(Coke-Testing)



MEDVELEV, N.P.; KARAMYDEEV, V.V.; MEDTATIN, P.I.; NYROLEVA, N.B.

Problems in the histochemictry and physicing of defect of the heart. Nauch. trucy Kaz. gon. med. inst. 12:28-28: 162.

1. Kafedra gospitalinov khimurgi. 80.2 (nav. - prof. her. Medvedev) Kazanskogs meditalinokoga instituta.



GRIGORENKO, M.G.; KOZLOVSKIY, G.B.; MUSTAFIH, G.A.; FETGIN, L.A.; SHIKALOV, A.G.; PETERSA, Ye.R., kandidat teknichestikh nauk, redaktor; FAYHERG, G.M., inshener, redaktor.

[Read machinery] Doroshnye mashiny. Pod obshei red. E.R.Petersa i G.M. Fainberga. Moskva, Ministerstva avtomobil'nego transporta i shosseinyth dorog SSSR. Pt.1. 1954.366 p. (Microfilm) (MIRA 9:6) (Read machinery)

MURAT YEV, I.M.; GIMATUDINOV, Sh.K.; NIKOLAYEV, V.A.; MUSTAFIN, G.G.

Effect of the degree of the nonuniformity of a porous medium on oil yield. Izv. vys. ucheb. zav.; neft' i gaz 7 no.11:35-38'64. (MIRA 18:11)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. akad. I.M. Gubkina.

· MOSTAFINE CHIC

75-13-2-24/27

AUTH R:

locdnyakov, A.A.

TITLE:

Symposium on the The ry and Use of Complement in

Analytical C'e jutry (Simposium po teorii i primenemiyo

kompleksonov v amalitisheshoy khimii)

IERICOTOAL:

Thurnal Amaliticheshoy Ehrini, 1913, Vol. 13, Mr 2,

n: 261-262 (MSSR)

ABSTRACT:

A symposium on the theory and the use of complexons in analytical chemistry which was called by the Commission for Analytical Chemistry at the Institute for Geoche-

for Analytical Chemistry at the Institute for Geochemistry and Analytical Chambery inend V.I. Vernadskiy AS USSR, took place in Moscow from November 23 to November 30, 1957. More than 50 specialists of complexo-

metry, amonist whom were also representatives from recile's democracies, attended this symposium. 13 lectures were attended and judged Part of the rejorts was devoted to theoretical problems, another part dealt with the synthesis

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Symposium on the Theory and Use of Complexons in Analytical Compstry

of new complexons and color indicators and with the use of complexons, especially of complexon III, for the separation and determination of elements.

K.B. Yatsimirshiy (Ivanovo) reported on the results of thermochemical investimations of complex compounds.

R. Prshibil (Prame) reported on metallocarmic indicators of the phthalein-series and on 2 new indicators: Glycine-thymol-blue and glycine-cresul-red. I Kerbl (Irague) reported on the results obtained by the investimation of metallocarmic derivatives of amino acids and on the mechanisms of the indicator effect of metallocarmic indicators. One of the articles by this author dealt with errors in titration in complexometry. The rejects delivered by L. Erdei (Bidag at) and I.M. Mustalin (Saratov) were devoted to the use of some new indicators

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in complexametry. R. Irshibil rejorted on the complexometric determination of oxydizing and relucing compounds. P. ". Paley (Moscow) rejorted about the religing projecties of complexon III. R.I. Lastovskiy (Moscow) reported on investigation works in the field of the synthesis of new complexons and their investigation. Lyan' Shi-tsyuan' and Tsen! In!-tsao (Peking) reported on the possibility of the use of the complexes of pyrocatechol with trivalent iron for the determination of flucrine. M.M. Senyavin (Moscow) delivered a lecture on the use of conclexons in the ion exchange chromatography, Yu. Yu. Lur'ye (Moscow) reported on some methods of analysis in the metallurgy of nonferrous metals which are based on the use of complexon III. In the course of a discussion, A.K. Babko proposed to use complexen III for the retardation of crystallization processes.

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I.F. Alimarin, I.V. Tananayev, V.I. Kunnetsov, A.K. Babko, N.P. Komar' and others took an active part in the symposium.

1. Chemistry--USSR

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MUSTAFIN, A.M.

Chemical Abst. Vol. 48 No. 9 May 10, 1954 Analytical Chemistry New method of rapid synthesis of organic reagents for qualitative analysis. L. H. E. L. S. Mustafin, and A. L. Cherterov Relate Univ., Secator J. Organic reagents, and A. L. Cherterov Relate Univ., Secator J. Organic Russian, and A. L. Cherterov Relate Univ., Secator J. Organic Russian, and A. L. Cherterov Relate Univ., Secator J. Organic Russian, and R. L. Cherterov Relate Univ., Secator J. Organic Russian, and Scinitivity toward various ions as do the conventionally synthesized reagents. Thus, rubbing 2-naplithol, NaNOs, and KHSOs, 1-2 min. gives a brown solid, usable as 1-nitroso-2-naplithol for Co and Zr detection. 1-Naphthol, NaNOs, and Scil, similarly give 2-nitroso-1-naphthol, suitable for Hg or Co. Resorcinol, NaNOs, and KHSOs, give dinitrosoresorcinol, suitable for Cu + and Re + . Phthalic anhydride, hydroquitnone, and Scil, with boric acid or NaHCOs, give similarly (the product was Leated briefly in the test tube before use) quinizarin, suitable for Al detn. Paraformaldelivite, NH-(OH).HCl, and KsCOs, give formaldoxime ...nule for Cu + Ni+, or Mn + . Salicylic acid, paraformaldelivyde, and NaNOs, (a little HsSOs added) similarly give aurin tricarboxylic acid (NHs salt), suitable for Al or Fe+++. p-Nitroaniline, 8-quinolinol, NaNOs, and KHSOs give (p-nitrophenylazo)-Ruinolinol, suitable for Mg detn. p-Nitroaniline, 1.8-dihydroxy-3.0-niaphthalenedisulfonic acid, NaNOs, and KHSOs give (p-nitrophenylazo)-chromotropic acid, suitable for detn. of B or Ge. Saffranine, NaNOs, and KHSOs give Diazine Green S, suitable for Sn+++ detn. Rubbing together 1-2 min. 0.05 g. p-nitroaniline, 0.1 g. 8-quinolinol, 0.4 g. KH-SOs, and a little CuSOs gives a mixt. which added to a soin, contg. NOs ion gives a reagent suitable for the detn. of Bi, Sb, and Pb. Rubbing K ferricyanide with strupy HaPOs and Rt-NPH gives a reagent suitable for the detn. of Bi, Sb, and Pb. Rubbing K ferricyanide with strupy HaPOs and Rt-NPH gives a reagent suitable for Zn detn. (red color or ppt.). Cd(OAc), KI. pyridine, and KHSOs give a substance

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